

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	2	((("6616244") or ("20030052529")).PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/23 21:03
S1	12	makela-hannu.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 19:42
S2	12	pulli-riku.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 19:28
S3	7	soikkeli-timo.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 17:50
S4	3	US-5956250-\$.DID. OR US-1243939-\$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:28
S6	2	((("6616244") or ("20030052529")).PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/22 18:38
S7	7548	((701/50,201,207,214,216,223,224,23,28) or (299/1.05,30,1.4,1.5,1.6,19,12)).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/22 13:12
S8	8063	((701/50,201,207,214,216,223,224,23,28) or (299/1.05,30,1.4,1.5,1.6,19,12) or (180/317) or (318/580)).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/22 13:12
S9	6	("4586571"   "4716530"   "5041722"   "5530330"   "5911767"   "6349249").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/22 17:46
S14	0	("WO169041").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/05/22 17:57
S17	0	("WO-169041-\$.did.").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/05/22 17:57

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S18	0	("WO-200169041-\$.did.").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/05/22 17:58
S19	0	("2001WO-US00264.AP,PRAI.").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/05/22 18:00
S20	8	(US-20030052529-\$.did. or (US-6349249-\$ or US-5911767-\$ or US-5530330-\$ or US-5041722-\$ or US-4716530-\$ or US-4586571-\$ or US-6616244-\$.did.	US-PGPUB; USPAT	OR	ON	2007/05/22 18:00
S21	4	S20 and mine	US-PGPUB; USPAT	OR	ON	2007/05/22 18:01
S22	6	S20 and min\$4	US-PGPUB; USPAT	OR	ON	2007/05/22 18:03
S24	1163	( (mine or (underground) or mining) and (control\$4) and (measur\$4 near5 (device or system or unit ro computer)) and (distance and direction) and wireless )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/05/22 20:13
S30	5647	((mine or mining) and ((mark\$4 or identif\$4 or symbol) near9 (work or area or room or section or tunnel or passageway or channel or subway or underpass)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:33
S31	287	S30 and S24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:30
S32	9	S31 and (dead adj reckoning)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 20:14
S33	2546	((mining or mine) near3 (vehcile or truck or trailer or tractor or car or automobile) )	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 12:38
S34	963	( ( (underground) or mining) and (control\$4) and (measur\$4 near5 (device or system or unit ro computer)) and (distance and direction) and wireless )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:33

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S35	19	S33 and S34	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:33
S36	5998	((underground or mining) and ((mark\$4 or identif\$4 or symbol) near9 (work or area or room or section or tunnel or passageway or channel or subway or underpass)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 20:04
S37	9	S35 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:34
S38	1	S20 and (vehcile or car or trailor or truck or automobile)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 18:41
S40	2	((("6616244") or ("20030052529")).PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/22 18:38
S41	2	S40 and (vehicle)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 18:38
S47	599	(mining adj vehicle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 18:40
S49	4026	((mining or mine) near2 (vehicle or car or trailor or truck or automobile))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 18:55
S50	92	S49 and ((underground or mining) and ((mark\$4 or identif\$4 or symbol) near9 (work or area or room or section or tunnel or passageway or channel or subway or underpass)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:43

## EAST Search History

S51	453	(( mining or mine) near2 (vehicle or car or trailer or truck or automobile) and ( (base adj station) or antenna or receiver) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 12:37
S52	146	(( mining or mine) near2 (vehicle or car or trailer or truck or automobile) and ( (base adj station) or antenna or receiver) and wireless )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:04
S53	114	S52 not S50	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:08
S54	53	S53 not GPS	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:35
S55	1	("6349249").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/22 19:35
S57	1	S55 and (gyro or gyroscope)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:40
S58	0	S55 and ( (gyro or gyroscope) same distance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:40
S59	1	S55 and ( (gyro or gyroscope) and distance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:43
S60	0	S55 and ( distance near9 travel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:44
S61	1	S55 and ( distance near9 (driv\$4 or travel\$4) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:46

## EAST Search History

S62	1	S55 and ( distance )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 20:00
S63	8063	((701/50,201,207,214,216,223, 224,23,28) or (299/1.05,30,1.4,1. 5,1.6,19,12) or (180/317) or (318/580)).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/23 20:46
S64	81	S63 and ( (mining or mine) near2 (vehicle or car or trailer or truck or automobile) and ( (base adj station) or antenna or receiver) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 20:02
S65	24	S64 and ((underground or mining) and ((mark\$4 or identif\$4 or symbol) near9 (work or area or room or section or tunnel or passageway or channel or subway or underpass)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 20:04
S66	48	S63 and ( (mine or (underground) or mining) and (control\$4) and (measur\$4 near5 (device or system or unit ro computer)) and (distance and direction) and wireless )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/05/22 20:13
S67	9	S66 and (dead adj reckoning)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 12:39
S70	15	hakkinen-leo.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 20:34
S71	6	("4586571"   "4716530"   "5041722"   "5530330"   "5911767"   "6349249").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/22 20:36

## EAST Search History

S72	78	("20060167608" "4445723" "4557524" "20060189324" "20060189329" "20060190163" "5232269" "5577808" "6469638" "6587046" "20030071899" "20040160319" "20060190165" "20030065578" "20060123461" "5404661" "6349249" "20030135608" "20040262980" "20060031041" "6665601" "3959845" "5799263" "6630893" "6707421" "6789729" "6842620" "7038573" "20020140811" "20030078055" "20040104842" "20040192189" "20040236501" "20050052281" "20050064864" "20060011721" "20060220911" "20060253251" "20070057817" "3718367" ).pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 12:29
S73	8	S72 and ( (mining or mine) near2 (vehicle or car or trailor or truck or automobile) and ( (base adj station) or antenna or receiver) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 12:37
S74	5	S72 and ((mining or mine) near3 (vehcile or truck or trailor or tractor or car or automobile) )	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 12:39
S75	11	S72 and (dead adj reckoning)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 12:40
S76	7	S72 and ((dead adj reckoning) and wireless )	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 12:40